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Lundt

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Endolite 'Multiflex', Foot and Ankle Combination, Foot and Ladies Multiflex, Endolite North America, Certificate No. FM29097, IS09001, EN46001.

Improved Multiflex Foot and Ankle. 509153-509170. Blatchford Endolite, Chas. A. Blatchford & Sons Ltd., Blatchford: 934609, Issue 03/0093.

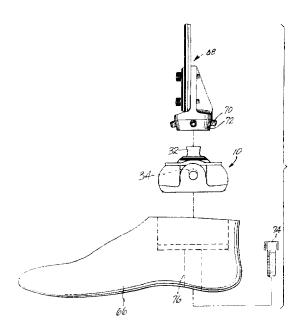
OWW Single Axis Foot, Ohio Willow Food Company, PH-1065-A, Oct. 1,1994.

Primary Examiner—Michael J. Milano Attorney, Agent, or Firm—Christie, Parker & Hale, LLP

[57] ABSTRACT

A multi-axis prosthetic ankle joint comprising a housing having a bottom portion and a top portion having a front bumper and rear bumper positioned within the housing between the bottom portion and the top portion. The front and rear bumpers and the top and bottom portions of the housing each contain at least one flange which are overlapping and include an axially aligned hole for receipt of a pin. The holes in the upper housing flanges are elongated to provide multiple axes of motion for the ankle joint. The ankle joint is adapted to be rigidly connected between a lower leg component and a foot component.

12 Claims, 3 Drawing Sheets



[54] MULTI-AXIS PROSTHETIC ANKLE JOINT [75] Inventor: Judd E. Lundt, Hermosa Beach, Calif. [73] Assignee: United States Manufacturing Company, Pasadena, Calif. [21] Appl. No.: 705,658 Aug. 30, 1996 [22] Filed: U.S. Cl. 623/47; 623/50 623/50, 52 References Cited [56] U.S. PATENT DOCUMENTS 4/1866 Weston 623/48 53,931 292,800 2/1884 Furrer 623/52 12/1982 Mummert 623/50 4,364,128 4,395,783 8/1983 Eyre 623/47 4,605,417 8/1986 Fleishauer 623/49 Voisin 623/52 5,019,109 5/1991 11/1993 Robinson 623/47 5,258,038 5,482,513 1/1996 Wilson 623/47 5,545,234 8/1996 Collier 623/49

Voisin, Jerome P., Dual-Ankle Springs, Multi-Axial Rotation System, D.A.S. M.A.R.S.™, Acadian Prosthetics & Orthopedic Aids, Inc.

OTHER PUBLICATIONS

